

AiM Infotech

AiM 0-50 PSI
pressure sensor

Release 1.02



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Introduction

This datasheet explains how to use AiM 0-50 PSI pressure sensor. It fits the measurement of oil and fuel pressure and needs a careful installation. This is why AiM suggest to address to a specialized workshop.

The sensor **part number** is:

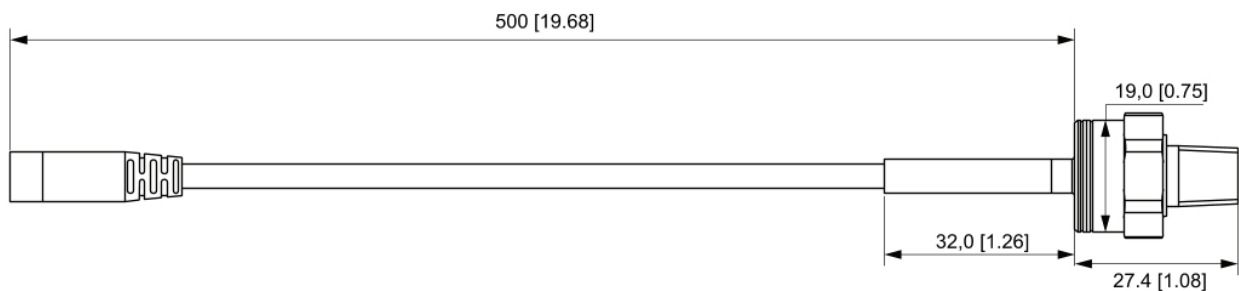
- Pressure sensor 0-50 PSI 1/8 NPT

X05PSA00050P18K

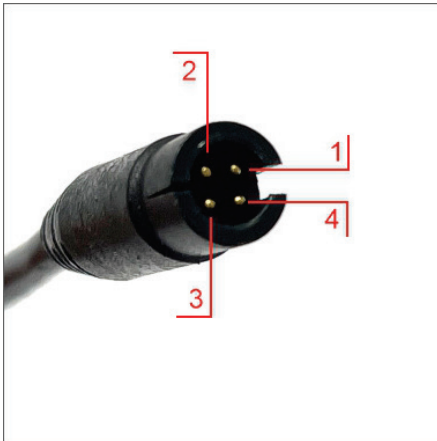
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Dimensions, pinout and technical characteristics

The drawing here below shows sensors dimensions in millimetres [inches].



The sensor end with a 4 pins Binder 719 male connector. Here below the connector view – sensor side on the left and device side on the right – are shown; while in the following table is connector pinout.



Pin	Function	Cable colour
1	Analog signal	White
2	GND	Black
3	+Vb	Red
4	Not connected	

The table here below shows the sensor electrical characteristics.

Technical characteristics	Value
Supply	8-16 V
Accuracy	< +/- 0.5% FS (CLNH – combined non-linearity and hysteresis)
Output signal	from 0.5 V to 4.5 V
Characterisation	500 mV/ 0 PSI 4500 mV/ 50 PSI
Consumption	< 10 mA
Temperature working range	from -20°C to 135°C
Sealing	IP66
Housing	316 stainless steel
Weight	30 g
Cable length	500 mm
Thread	1/8 NPT

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Extension cables

The sensor is sold with a 50 cm cable. Standard length extension cables are available, whose part number changes according to their length and to the product the sensor is to be connected to.

Extension cable for connection to:

- MXG/MXG 1.2/MXG 1.2 Strada
- MXS/MXS 1.2/MXS Strada/MXS 1.2 Strada
- MXP/MXP Strada
- MXL2
- MXm
- EVO5
- MXL Strada/Pista/Pro05

Part numbers:

V02PCB05B - cable length: 500mm

V02PCB10B - cable length: 1000mm

V02PCB15B - cable length: 1500mm

V02PCB20B - cable length: 2000mm

V02PCB25B - cable length: 2500mm

V02PCB30B - cable length: 3000mm



Extension cable for connection to:

- Channel Expansion
- EVO4
- EVO4S

Part numbers:

V02PCB05BTXG - cable length: 500mm

V02PCB10BTXG - cable length: 1000mm

V02PCB15BTXG - cable length: 1500mm

V02PCB20BTXG - cable length: 2000mm

V02PCB25BTXG - cable length: 2500mm

V02PCB30BTXG - cable length: 3000mm

